

CURRICULUM VITAE

Dr. SATHISH KUMAR PALANIAPPAN



Communication Address:

Research Scientist (Specialist 2)
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Educational Qualifications:

Jan 2017 – Aug 2021 : **Doctor of Philosophy (Ph.D)**
Institute : Indian Institute of Technology Kharagpur, West Bengal, India
Thesis Title : *Development of sustainable rock cutting bits through surface coating and optimization of process parameters*
Supervisor(s) Name : Prof. Samir Kumar Pal & Prof. M. P. Dikshit

Aug 2012 – May 2014 : **Master of Engineering (CAD/CAM)**
Institute : Kongu Engineering College (Autonomous) - Erode, Tamil Nadu, India
University : Anna University - Chennai
Aggregate : **9.35 CGPA (Gold Medalist, University Rank Holder)**
Thesis Title : *A study on the effect of compatibilizer and nanofiller on the technical properties of HDPE*

Sep 2008 – April 2012 : **Bachelor of Engineering (Mechanical Engineering)**
Institute : University College of Engineering - Villupuram, Tamil Nadu, India
University : Anna University - Chennai

Industry/Research/Teaching Experiences (4 years 11 months as of 18-October-2023):

4th September 2023 – till date : Research Scientist (Specialist 2)
Institute : King Mongkut's University of Technology North Bangkok, Thailand

3rd September 2022 – 2nd September 2023: Post-Doctoral Researcher
Institute : King Mongkut's University of Technology North Bangkok, Thailand

16th May 2022 – 23rd August 2022 : Assistant Professor (Senior Grade)
Department : Department of Manufacturing, Institute of Mechanical Engineering
Institute : Saveetha School of Engineering, SIMATS University – Chennai
Tamil Nadu, India

14th June 2021 – 14th May 2022 : Research Associate
Institute : Indian Institute of Technology Kharagpur, West Bengal, India

10th July 2015 – 30th December 2016 : Junior Research Fellow
Institute : Indian Institute of Technology Kharagpur, West Bengal, India

29th December 2014 – 01st July 2015 : MHRD - Institute Research Scholar
Department : Metallurgical and Materials Engineering
Institute : Indian Institute of Technology Patna, Bihar, India

12th May 2014 – 24th December 2014 : Engineer (Quality Control)
Company/Organization : Sri Karvembu Textiles Private Limited - Erode, Tamil Nadu, India

* Also, worked as a scientific/technical assistant in many government and industrial sponsored consultancy projects.

Professional Affiliations:

1. Senior Member of *Indian Society of Mechanical Engineers (ISME)*, **Membership Number: SMISME20121617 (2021)**
2. Life Member of *International Association of Engineers (IAENG)*, **Membership Number: 282043 (2021)**
3. *Honorary Rosalind Member of London Journals Press*, **Membership ID: #EB52617 (2021)**

4. Fellow and Life Member of *The Society of Innovative Educationalist & Scientific Research Professional (SIESRP)*, **Membership Number: LM171899F2320 (2021)**
5. Member of *International Association of Advanced Materials, Sweden*, **Membership Number: 9112151912956 (2017)**

Patent:

Title of Invention	<i>Development of artificial neck skin, back skin, chest tube products for surgery suture practice to Indian medical practitioners</i>
Inventers	<i>Rajasekar Rathanasamy, Samir Kumar Pal, Kuppuswami Subbaraya, Sathish Kumar Palaniappan, Moganapriya Chinnasamy</i>
Application Number	<i>202141001928A</i>
Date of Filing	<i>15/01/2021</i>
Date of Publication	<i>21/01/2021</i>
Journal Number	<i>04/2021 (https://search.ipindia.gov.in/IPOJournal/Journal/Patent)</i>
Issuing Agency	<i>Intellectual Property India (Government of India)</i>

Research Interests:

Polymer Nanocomposites/Composites; Natural Fiber Reinforced Composites; Additive Manufacturing, Polymer Blends and Bio-materials; Mechanical Behavior of Materials; Thin Film Coating; Tribology; Bio-degradable Polymers; Machining Characteristics of Ceramics and Polymer Composites; Natural and Synthetic Polymers; Multi-functional Composite Materials and Nanomaterials; Cutting Bits; Surface Modifications.

** Also, interested to extend the area of research in core materials and mechanical related fields, which suits best to my knowledge in future years.*

Hands-on Experiences:

Dynamic Mechanical Analyzer (DMA)	DIN and Du-Pont Abrasion Tester
Universal Testing Machine (UTM)	Haake Rheomix Lab Internal Mixer
Thermo Gravimetric Analyzer (TGA)	Two Roll Mill (Rubber)
Fourier Transform Infra-Red Spectroscopy (FTIR)	Compression Molding
Differential Scanning Calorimeter (DSC)	Haake Mini-jet Injection Molding
Hardness Tester (Shore A), CNC Machine	Oscillating Disc Rheometer (ODR)
Thermo Mechanical Analysis (TMA)	Two Roll Internal Sigma Mixer (Plastics)

Journal Publications:

Google Scholar	:	https://scholar.google.co.in/citations?user=vmDZpO8AAAAJ&hl=en <i>Citations: 1027 h-index: 17 i10-index: 29</i>
Publons/Web of Science ID	:	https://www.webofscience.com/wos/author/record/ABM-3909-2022
ORCID	:	https://orcid.org/0000-0002-2227-6433
Scopus	:	https://www.scopus.com/authid/detail.uri?authorId=57193647398 <i>Citations: 776 h-index: 15</i>

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1. Oguz Kocar, Nergizhan Anac, **Sathish Kumar Palaniappan**, Merve Dogan, Suchart Siengchin. Effect of process parameters on the mechanical behavior of additively manufactured and FSW joined PLA wood sheets. **Polymer Composites** (*Accepted for publication*). IF: 5.2.
2. L. Rajesh Kumar, **P. Sathish Kumar**, M. Ramesh, M. R. Sanjay, Suchart Seingchin. Assessment of biodegradation of lignocellulosic fiber-based composites – A systematic review. **International Journal of Biological Macromolecules**, 253:127237, **2023**. <https://doi.org/10.1016/j.ijbiomac.2023.127237>, IF: 8.2.
3. Moganapriya Chinnasamy, Rajasekar Rathanasamy, Biswajit Samanta, Samir Kumar Pal, **Sathish Kumar Palaniappan**, Roja Rani Korrayi, Padmakumar Muthuswamy, Shibayan Roy. Microstructure evolution, phase formation, mechanical and tribological response of dee cryogenically treated hard WC-6% Co cutting bits. **Journal of Materials Research and Technology**, 27:1293-1306, **2023**. <https://doi.org/10.1016/j.jmrt.2023.09.320>, IF: 6.4.
4. Moganapriya Chinnasamy, Rajasekar Rathanasamy, Biswajit Samanta, Samir Kumar Pal, **Sathish Kumar Palaniappan**, Padmakumar Muthuswamy, Roja Rani Korrayi, Shibayan Roy. Implications of cryogenic treatment on microstructure, phase formation, mechanical and tribological properties of tungsten carbide cutting bits with varying cobalt content for mining applications. **International Journal of Refractory Metals and Hard Materials**, 117:106421, **2023**. <https://doi.org/10.1016/j.jirmhm.2023.106421>, IF: 3.6.

5. Rohan Bisai, **Sathish Kumar Palaniappan**, Sayantan Chakraborty, Rohit Roy, Samir Kumar Pal, Shobhit Sharma. Investigation on the changes of strength properties and ultrasonic pulse velocity of granite and sandstone after high-temperature treatment and liquid nitrogen quenching. **Arabian Journal of Geosciences**, 16:572, 2023 (Published online: 26th September 2023). <https://doi.org/10.1007/s12517-023-11687-5>.
6. Hasan Ahmed, Md Ashikur Rahaman Noyon, Md. Elias Uddin, Mamun Jamal, **Sathish Kumar Palaniappan**. Biodegradable and flexible fiber-reinforced composite sheet from tannery solid wastes: An approach of waste minimization. **Polymer Composites** (Published online: 9th August 2023). <https://doi.org/10.1002/pc.27644>, IF: 5.2.
7. **Sathish Kumar Palaniappan**, Samir Kumar Pal, Anup Kumar Tripathi. Indirect tensile test modelling for inhomogeneous rock samples using digital image processing. **Arabian Journal of Geosciences**, 16:450, 2023 (Published online: 04th July 2023). <https://doi.org/10.1007/s12517-023-11563-2>.
8. Karthik Aruchamy, **Sathish Kumar Palaniappan**, Rajeshkumar Lakshminarasimhan, Bhuvaneshwaran Mylsamy, Satish Kumar Dharmalingam, Nimel Sworna Ross, Sampath Pavayee Subramani. An experimental study on drilling behavior of silane-treated cotton/bamboo woven hybrid fiber reinforced epoxy polymer composites. **Polymers**, 15(14):3075, 2023. <https://doi.org/10.3390/polym15143075>, IF: 5.0.
9. Gobinath Velu Kaliyannan, Uma Gandhi, Rajasekar Rathanasamy, Mohan Kumar Subramanian, Suganeswaran Kandasamy, Raja Gunasekaran, **Sathish Kumar Palaniappan**. Effect of zinc oxide - aluminium oxide mechanical blends for boosting the polycrystalline silicon solar cell performance through antireflection properties. **Silicon** (Published online: 25th May 2023). <https://doi.org/10.1007/s12633-023-02515-2>, IF: 3.4.
10. Moganapriya Chinnasamy, Rajasekar Rathanasamy, **Sathish Kumar Palaniappan**, Samir Kumar Pal, Padmakumar Muthuswamy, Roja Rani Korrayi, Md. Elias Uddin. Microstructural and tribological characterization of cryogenic treated WC-Co cutting bits under different holding times for rock cutting applications. **Journal of Materials Engineering and Performance** (Published online: 17th May 2023). <https://doi.org/10.1007/s11665-023-08291-9>, IF: 2.3.
11. Karthik Aruchamy, Bhuvaneshwaran Mylsamy, **Sathish Kumar Palaniappan**, Sampath Pavayee Subramani, Thirumurugan Velayutham, Sanjay Mavinkere Rangappa, Suchart Siengchin. Influence of weave arrangements on mechanical characteristics of cotton and bamboo woven fabric reinforced composite laminates. **Journal of Reinforced Plastics and Composites**, 42(15-16):776-789, 2023. <https://doi.org/10.1177/07316844221140350>, IF: 3.1.
12. Saravanakumar Arunachalam, Rajeshkumar Lakshmi Narasimhan, **Sathish Kumar Palaniappan**, Nimel Sworna Ross, Arulmozhivarman Joseph Chandran, Sanjay Mavinkere Rangappa. Machinability analysis of Typha angustifolia natural fiber reinforced composites through experimental modeling – Influence of fiber orientation. **Polymer Composites**, 44(7):3808-3823, 2023. <https://doi.org/10.1002/pc.27358>, IF: 5.2.
13. **Sathish Kumar Palaniappan**, Samir Kumar Pal, Moganapriya Chinnasamy, Rajasekar Rathanasamy. Efficiency of rock cutting and wear behavior of coated bits via lab-scale linear rock cutting machine: An experimental approach. **International Journal of Geomechanics**, 23(2):06022041, 2023. [https://doi.org/10.1061/\(ASCE\)GM.1943-5622.0002603](https://doi.org/10.1061/(ASCE)GM.1943-5622.0002603), IF: 3.7.
14. **Sathish Kumar Palaniappan**, Moganapriya Chinnasamy, Samir Kumar Pal, Rajasekar Rathanasamy. Influence of cutting parameters on the performance of plough during hard rock cutting in coal mining. **Journal of Sustainable Mining**, 22(3), 185-194, 2023. <https://doi.org/10.46873/2300-3960.1388>, IF: 1.0.
15. Sayantan Chakraborty, Rohan Bisai, **Sathish Kumar Palaniappan**, Rohit Roy, Samir Kumar Pal. Predicting Young's modulus of Indian coal measure rock using multiple regression and artificial neural network. **Journal of Sustainable Mining**, 22(1), 41-54, 2023. <https://doi.org/10.46873/2300-3960.1373>, IF: 1.0.
16. Moganapriya Chinnasamy, Rajasekar Rathanasamy, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Microstructural transformation analysis of cryogenic treated conical rock cutting bits for mining applications. **International Journal of Refractory Metals and Hard Materials**, 110:105995, 2023. <https://doi.org/10.1016/j.ijrmhm.2022.105995>, IF: 3.6.

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17. Chinnasamy Moganapriya, Rathanasamy Rajasekar, **Palaniappan Sathish Kumar**, Samir Kumar Pal. Investigation of TiAlN, AlTiN, and TiAlSiN coated inserts on the machining performance of AISI 420 steel and multi-objective optimization of process parameters. **Journal of The Institution of Engineers (India): Series D**, 103(2):563-573, 2022. <https://doi.org/10.1007/s40033-022-00346-w>.
18. Saravanan Nagappan, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Bhuvaneshwaran Mylsamy. Impact of alkali treatment and fiber length on mechanical properties of new agro waste *Lagenaria Siceraria* fiber reinforced epoxy composites. **Journal of Natural Fibers**, 19(13):6853-6864, 2022. <https://doi.org/10.1080/15440478.2021.1932681>, IF: 3.507.
19. C. Moganapriya, R. Rajasekar, R. Santhosh, S. Saran, S. Santhosh, V. K. Gobinath, **P. Sathish Kumar**. Sustainable hard machining of AISI 304 stainless steel through TiAlN, AlTiN and TiAlSiN coating and multi criteria decision making using grey fuzzy coupled Taguchi method. **Journal of Materials Engineering and Performance**, 31(9):7302-7314, 2022. <https://doi.org/10.1007/s11665-022-06751-2>, IF: 2.036.

20. Moganapriya Chinnasamy, Rajasekar Rathanasamy, Samir Kumar Pal, **Sathish Kumar Palaniappan**. Effectiveness of cryogenic treatment on cutting tool inserts: A review. **International Journal of Refractory Metals and Hard Materials**, 108:105946, 2022. <https://doi.org/10.1016/j.ijrmhm.2022.105946>, IF: 3.6.
21. C. Moganapriya, R. Rajasekar, T. Mohanraj, V. K. Gobinath, **P. Sathish Kumar**, C. Poongodi. Dry machining performance studies on TiAlSiN coated inserts in turning of AISI 420 martensitic stainless steel and multi-response optimization using Taguchi-DEAR approach. **Silicon**, 14:4183-4196, 2022. <https://doi.org/10.1007/s12633-021-01202-4>, IF: 2.941.
22. **Sathish Kumar Palaniappan**, Samir Kumar Pal, Moganapriya Chinnasamy, Rajasekar Rathanasamy, Gobinath Velu Kaliyannan. Multi-response optimization for evaluating output responses in rock cutting through grey-fuzzy coupled Taguchi technique. **Mining, Metallurgy & Exploration**, 39:1133-1148, 2022. <https://doi.org/10.1007/s42461-022-00603-2>, IF: 1.695.
23. Sayantan Chakraborty, Rohan Bisai, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Characterization of fracture pattern of Indian coal measure rock under uniaxial compression stress by statistical analysis of fractal dimension of the micro cracks orientation. **Journal of The Institution of Engineers (India): Series D**, 103(1):95-106, 2022. <https://doi.org/10.1007/s40033-021-00308-8>.
24. Karthik Aruchamy, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Samir Kumar Pal, Bhuvaneshwaran Mysamy, Vivekanandhan Chinnasamy. Effect of blend ratio on the thermal comfort characteristics of cotton/bamboo blended fabrics. **Journal of Natural Fibers**, 19(1):105-114, 2022. <http://doi.org/10.1080/15440478.2020.1731903>, IF: 3.507.
25. Mohan Kumar Anandraj, Rajasekar Rathanasamy, Parameshwaran Rathinasamy, **Sathish Kumar Palaniappan**. Effect of Cloisite 15A on the mechanical properties of an abaca-based composite. **Materials Testing**, 64(1):125-131, 2022. <https://doi.org/10.1515/mt-2021-2006>, IF: 2.528.

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26. Rohit Roy, Sayantan Chakraborty, Rohan Bisai, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Suitability of bottom ash for stowing in underground coal mines with and without addition of settling agent. **Journal of The Institution of Engineers (India): Series D**, 102(2):505-520, 2021, <https://doi.org/10.1007/s40033-021-00293-y>.
27. Sangeetha Govindharajan, Saratha Raman, Viswapriya Shanmugam, Rajasekar Rathanasamy, **Sathish Kumar Palaniappan**. Corrosion of brass subjected to cast-off cooking oil blended with diesel. **Materials Testing**, 63(11):1032-1040, 2021. <https://doi.org/10.1515/mt-2021-0038>, IF: 2.528.
28. Prabhakaran Paramasivam, Rajasekar Rathanasamy, Rajesh Ranganathan, **Sathish Kumar Palaniappan**, Samir Kumar Pal, Moganapriya Chinnasamy. Husking and mechanical properties of ISAF N231/SAF N110 carbon black filled XNBR-ENR blend rubber compound for rice husk removal applications. **Materials Testing**, 63(8):783-787, 2021. <https://doi.org/10.1515/mt-2020-0112>, IF: 2.528.
29. V. K. Gobinath, R. Rajasekar, C. Moganapriya, A. Manju Sri, G. Raja, **P. Sathish Kumar**, J. Saravana Kumar. Surface engineering of zinc sulphide film for augmenting the performance of polycrystalline silicon solar cells. **Chalcogenide Letters**, 18(7):375-384, 2021. https://chalcogen.ro/375_GobinathVK.pdf, IF: 0.855.
30. Harikrishna Kumar Mohan Kumar, Shankar Subramaniam, Rajasekar Rathanasamy, Samir Kumar Pal, **Sathish Kumar Palaniappan**. Influence of dual filler reinforcement on the curing and tribo-mechanical behaviour of natural rubber nanocomposite for tire tread application. **Archives of Metallurgy and Materials**, 66(3):893-899, 2021. <https://doi.org/10.24425/amm.2021.136395>, IF: 0.633.
31. **Sathish Kumar Palaniappan**, Samir Kumar Pal, Moganapriya Chinnasamy, Rajasekar Rathanasamy. Performance assessment of hard coating on rock cutting bit and process parameters optimization through multi-response approach using DEAR-Taguchi technique. **Arabian Journal of Geosciences**, 14(11):959, 2021. <https://doi.org/10.1007/s12517-021-07302-0>, IF: 1.827.
32. Mysamy Bhuvaneshwaran, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Samir Kumar Pal, Sethuraman Balu. Natural cellulosic fiber from *Coccinia Indica* stem for polymer composites: Extraction and characterization. **Journal of Natural Fibers**, 18(5):644-652, 2021. <https://doi.org/10.1080/15440478.2019.1642826>, IF: 3.507.
33. C. Moganapriya, R. Rajasekar, **P. Sathish Kumar**, T. Mohanraj, V. K. Gobinath, J. Saravana Kumar. Achieving machining effectiveness for AISI 1015 structural steel through coated inserts and grey-fuzzy coupled Taguchi optimization approach. **Structural and Multidisciplinary Optimization**, 63:1169-1186, 2021. <http://doi.org/10.1007/s00158-020-02751-9>, IF: 4.279.
34. Rajasekar Rathanasamy, Sumanta Sahoo, Joong Hee Lee, Ashok Kumar Das, Mahalakshmi Somasundaram, **Sathish Kumar Palaniappan**, Santhosh Sivaraj. Carbon-based multi-layered films for electronic application: A review. **Journal of Electronic Materials**, 50(4):1845-1892, 2021. <http://doi.org/10.1007/s11664-020-08724-4>, IF: 2.047.

35. Saravanan Natarajan, Rajasekar Rathanasamy, **Sathish Kumar Palaniappan**, Suresh Velayudham, Hari Bodipatti Subburamamurthy, Kaushik Pal. Comparison of MA-g-PP effectiveness through mechanical performance of functionalised graphene reinforced polypropylene. **Polimeros: Ciência e Tecnologia**, 30(3):1-7, Article No. e2020035, 2021. <http://doi.org/10.1590/0104-1428.05620>, IF: 1.611.
36. Samir Kumar Pal, Anup Kumar Tripathi, Susmita Panda, **Sathish Kumar Palaniappan**. Sonar mapping of abandoned water-logged underground coal mine and backfilling operation using underwater camera. **International Journal of Mining and Mineral Engineering**, 12(3):181-194, 2021. <http://doi.org/10.1504/IJMME.2021.119205>.
37. B. S. Hari, K. V. Mahesh Kumar, K. Krishnamurthy, **P. Sathish Kumar**, V. K. Gobinath, R. Sachinbala, R. Rajasekar. Influence of graphene oxide on the morphological and mechanical behaviour of compatibilized low density polyethylene nanocomposites. **Materials Today: Proceedings**, 39:1487-1493, 2021. <http://doi.org/10.1016/j.matpr.2020.05.378>.

Year: 2020 (12)

38. Sathishranganathan Chinnasamy, Rajasekar Rathanasamy, Harikrishna Kumar Mohan Kumar, Prakash Maran Jeganathan, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Reactive compatibilization effect of graphene oxide reinforced butyl rubber nanocomposites. **Polimeros: Ciência e Tecnologia**, 30(3):1-5, Article No. e2020032, 2020. <http://doi.org/10.1590/0104-1428.05920>, IF: 1.611.
39. Bhuvaneshwaran Mylsamy, Vivekanandhan Chinnasamy, **Sathish Kumar Palaniappan**, Sampath Pavayee Subramani, Chandrasekar Gopalsamy. Effect of surface treatment on the tribological properties of coccinia indica cellulosic fiber reinforced polymer composites. **Journal of Materials Research and Technology**, 9(6):16423-16434, 2020. <https://doi.org/10.1016/j.jmrt.2020.11.100>, IF: 6.267.
40. Harikrishna Kumar Mohan Kumar, Shankar Subramaniam, Rajasekar Rathanasamy, Samir Kumar Pal, **Sathish Kumar Palaniappan**. Substantial reduction of carbon black and balancing the technical properties of styrene butadiene rubber compounds using nanoclay. **Journal of Rubber Research**, 23:79-87, 2020. <https://doi.org/10.1007/s42464-020-00039-7>, IF: 1.208.
41. Vivekanandhan Chinnasamy, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Bhuvaneshwaran Mylsamy, Karthik Aruchamy. Characterization on thermal properties of glass fiber and kevlar fiber with modified epoxy hybrid composites. **Journal of Materials Research and Technology**, 9(3):3158-3167, 2020. <https://doi.org/10.1016/j.jmrt.2020.01.061>, IF: 6.267.
42. Rohan Bisai, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Effects of high-temperature heating and cryogenic quenching on the physico-mechanical properties of limestone. **SN Applied Sciences**, 2(2):1-10, Article No. 158, 2020. <https://doi.org/10.1007/s42452-020-1944-8>.
43. Gobinath Velu Kaliyannan, Senthil Velmurugan Palanisamy, Rajasekar Rathanasamy, Manivasakan Palanisamy, **Sathish Kumar Palaniappan**, Moganapriya Chinnasamy. Influence of ultrathin gahnite anti-reflection coating on the power conversion efficiency of polycrystalline silicon solar cell. **Journal of Materials Science: Materials in Electronics**, 31(3):2308-2319, 2020. <https://doi.org/10.1007/s10854-019-02763-2>, IF: 2.779.
44. Balu Sethuraman, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Bhuvaneshwaran Mylsamy, Karthik Aruchamy. Experimental investigation on dynamic mechanical and thermal characteristics of *Coccinia Indica* fiber reinforced polyester composites. **Journal of Engineered Fibers and Fabrics**, 15:1-6, 2020. <https://doi.org/10.1177/1558925020905831>, IF: 2.000.
45. Bhuvaneshwaran Mylsamy, **Sathish Kumar Palaniappan**, Sampath Pavayee Subramani, Samir Kumar Pal, Balu Sethuraman. Innovative characterization and mechanical properties of natural cellulosic *Coccinia Indica* fiber and its composites. **Materials Testing**, 62(1):61-67, 2020. <https://doi.org/10.3139/120.111451>, IF: 2.528.
46. Karthik Aruchamy, Sampath Pavayee Subramani, **Sathish Kumar Palaniappan**, Balu Sethuraman, Gobinath Velu Kaliyannan. Study on mechanical characteristics of woven cotton/bamboo hybrid reinforced composite laminates. **Journal of Materials Research and Technology**, 9(1):718-726, 2020. <https://doi.org/10.1016/j.jmrt.2019.11.013>, IF: 6.267.
47. **Sathish Kumar Palaniappan**, Samir Kumar Pal, M. P. Dikshit. A study on rock cutting forces and wear mechanisms of coated picks by lab-scale linear cutting machine. In: Erkan Topal (Eds) **Proceedings of the 28th International Symposium on Mine Planning and Equipment Selection 2019**, Springer Series in Geomechanics and Geoengineering (Springer Nature Switzerland AG 2020), pages: 467-475, 2020. https://doi.org/10.1007/978-3-030-33954-8_53.
48. Rohan Bisai, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Influence of individual and combined pre-treatment on the strength properties of granite and sandstone. **Arabian Journal of Geosciences**, 13(1):1-10, Article No. 7, 2020. <https://doi.org/10.1007/s12517-019-5009-5>, IF: 1.827.
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52. Govindharajan Sangeetha, Raman Saratha, Viswapriya Shanmugam, Rathanasamy Rajasekar, Velu Kaliyannan Gobinath, **Palaniappan Sathish Kumar**. Wet corrosion behavior of copper exposed to recycled groundnut oil as biofuel. **Materials Testing**, 61(2):131-135, 2019. <https://doi.org/10.3139/120.111294>, IF: 2.528.
53. Sayantan Chakraborty, Rohan Bisai, **Sathish Kumar Palaniappan**, Samir Kumar Pal. Failure modes of rocks under uniaxial compression tests: An experimental approach. **Journal of Advances in Geotechnical Engineering**, 2(3):1-8, 2019. <http://doi.org/10.5281/zenodo.3461773>.
54. Karavalasu Velusamy Mahesh Kumar, Kasilingam Krishnamurthy, Rathanasamy Rajasekar, **Palaniappan Sathish Kumar**, Kaushik Pal, Ganesh Chandra Nayak. Influence of graphene oxide on the static and dynamic mechanical behaviour of compatibilized polypropylene nanocomposites. **Materials Testing**, 61(10):986-990, 2019. <https://doi.org/10.3139/120.111411>, IF: 2.528.
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3. Rohan Bisai, Samir Kumar Pal, **Sathish Kumar Palaniappan**, Arpan Ray. An experimental study on influences of cryogenic quenching on the mechanical properties of granite using liquid nitrogen (LIN). **National Conference on Advances in Mining (AIM), CSIR CIMFR - Dhanbad, February 14-15, 2020.**
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Additional Credits:

- Webinar Talk on **Emerging Trends in Mechatronics**, organized by *Department of Mechanical Engineering, Kongunadu College of Engineering and Technology (Autonomous), Trichy* on 27th October 2020.
- Webinar Talk on **Composite Materials in Space Applications and Collaborative Robotic Inspections**, organized by *Department of Mechanical & Automobile Engineering, Arasu Engineering College, Kumbakonam* on 03rd June 2021.
- Webinar Talk on **Composite Materials in Space Applications and Collaborative Robotic Inspections**, organized by *Department of Mechanical Engineering, Sri Venkateswara College of Engineering (Autonomous), Tirupathi* on 11th November 2021.
- 4-Day Training Programme on “**Laboratory Quality Management System & Internal Audit as per IS/ISO/IEC 17025:2017**” conducted by *National Institute of Training for Standardization, Bureau of Indian Standards* from 08.03.2022 to 11.03.2022.
- Guest Lecture in Faculty Development Program on “**Manufacturing & Characterization of Advanced Materials**”, organized by *Electronics & ICT Academy, NIT Warangal and Kongu Engineering College, Erode* from 14.03.2022 to 21.03.2022.
- Attended 2-Days National Level FDP on “**Recent Advancement in Machine Learning and Deep Learning**” organized by *School of Computer Science and Engineering, VIT-AP University, Amaravati* on 19th & 20th July 2022.
- Online short-term training program (STTP) on **Applications of Soft-computing Techniques and Numerical Modelling in “Additive Manufacturing and Materials Processing”** conducted by *Department of Mechanical Engineering, Sardar Vallabhbhai National Institute of Technology, Surat* from 17.12.2022 to 21.12.2022.
- Attended “**IP Awareness/Training program under National Intellectual Property Awareness Mission**” organized by *Intellectual Property Office, Government of India* on 19th January 2023.
- Attended 2-Days online training programme on “**Awareness about IPR**” organized by *CSIR-National Physical Laboratory, New Delhi* on 24th and 25th January 2023.
- Guest Lecture in 5-Days International Faculty Development Program on “**Recent Advancements in Composite Research and Development**”, organized by *A.C.T. Academy, Coimbatore, Tamil Nadu* between 30.01.2023 and 03.02.2023.
- **Virtual International Symposium on Lightweight and Sustainable Polymeric Materials – 2023** (Technical Committee Member & Session Chair), <http://lspm.tggs.kmutnb.ac.th/technical-committee/>.
- **International Conference on Eco-friendly Fibers and Polymeric Materials – 2024** (Conference Convenor), <https://efpm.kmutnb.ac.th/Committees.aspx?p=01>
- **International Conference on Clean and Green Energy – 2019, 2020 & 2023** (Technical Committee Member & Reviewer), <http://www.icge.org/committee.html>.
- **Virtual International Conference on Product Design, Development and Deployment** from September 11-12, 2021 in VIT University, India (Reviewer).

- **The Fifth International Workshop on Environment and Geoscience** from July 16-17, 2022 in Qingdao, China (Reviewer).
- **The 8th Global Conference on Polymer and Composite Materials** from August 16-19, 2021 in Macau, China (Reviewer), <http://www.academicconf.com/reviewerlist?confname=pcm2021>.

* *Reviewer in many reputed international journals of Elsevier, Springer, SAGE, Wiley and Taylor & Francis.*

Journal	Publisher	IF	Quartile
- Silicon	Springer	2.941	Q2
- Applied Composite Materials	Springer	2.368	Q2
- Biomass Conversion and Biorefinery	Springer	4.050	Q2
- Waste and Biomass Valorization	Springer	3.449	Q2
- Journal of Industrial Textiles	SAGE	2.926	Q2
- Journal of Elastomers and Plastics	SAGE	2.215	Q3
- Part C: Journal of Mechanical Engineering Science	SAGE	1.758	Q2
- Journal of Materials Research and Technology	Elsevier	6.267	Q1
- Materials Today: Proceedings	Elsevier		
- Environmental Quality Management	Wiley		Q3
- Physiologia Plantarum	Wiley	5.081	Q1
- Frontiers in Materials	Frontiers	3.985	Q2
- Polimery		1.528	Q3
- Coatings	MDPI	3.236	Q2
- Polymers	MDPI	4.967	Q1
- Materials	MDPI	3.748	Q2
- Sustainability	MDPI	3.889	Q1
- Nanomaterials	MDPI	5.719	Q1
- Lubricants	MDPI	3.584	Q2
- Applied Sciences	MDPI	2.838	Q2
- Surface Innovations	ICE Virtual Library	2.397	Q2
- Emerging Materials Research	ICE Virtual Library	1.795	Q3
- Materials Research Express	IOP Science	2.025	Q2
- Jurnal Sistem dan Manajemen Industri		1.090	
- Cogent Engineering	Taylor & Francis		Q2
- Advances in Materials and Processing Technologies	Taylor & Francis		Q2
- Engineering Review			Q4
- Recent Patents on Mechanical Engineering			Q4
- International Journal of Materials Science and Applications			
- Journal of Applied Chemical Science International			
- Journal of Geography, Environment and Earth Science International			
- Journal of Global Ecology and Environment			
- Journal of Advances in Microbiology			
- Chemical Science International Journal			
- Journal of Energy Research and Reviews			
- Journal of Engineering Research and Reports			
- Asian Journal of Current Research			
- Asian Journal of Fisheries and Aquatic Research			
- Recent Progress in Materials			
- Textile & Leather Review			

- **Guest Editor** for a special issue “Advanced Processing of Matrix Composites” in the journal “Materials (MDPI)”, https://www.mdpi.com/journal/materials/special_issues/GU8MJWOTUI.
- **Guest Editor** for a special issue “Advances in Eco-Friendly Materials and Composites” in the journal “New Environmentally-Friendly Materials”, https://ojs.bilpub.com/index.php/nefm/special_aefmc.
- **Review Editor** for a section “Polymeric and Composite Materials” in the journal “Frontiers in Materials”.
- **Guest Associate Editor** for research topic “Development of Novel Biodegradable Materials under Cryogenic Environment” in the journal “Frontiers in Materials”.
- Completed “**IOP Peer Review Excellence Graduates Training**” from IOP Publisher on November 3, 2022.

Editorial Board Member & Reviewer Board Member

- Organic Polymer Material Research, <https://ojs.bilpublishing.com/index.php/opmr/about/editorialTeam>
- New Environmentally-Friendly Materials, <https://ojs.bilpub.com/index.php/nefm/about/editorialTeam>
- Recent Progress in Materials, <https://www.lidsen.com/journals/rpm/rpm-Reviewer-Board>
- International Journal of Materials Science and Applications, <https://sciencepg.com/journal/editorialboard?journalid=123>
- Journal of Automotive Mechanical & Aerospace Engineering Research (*Hon. Editorial Board Member - Educational Consultant*)

List of References:

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I hereby declare that the stated informations are true to best of my knowledge.

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